

Tilal Al-Ghuroob_ILC240603AZ

مخطط تلال الغروب

4000K

10m Pole Height - 1m OR.
35m Spacing. - 10 Degrees Angle.
1 X VEGA 2 7M 4.700 L4 - 240 Watt.

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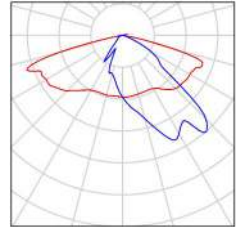
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Tilal Al-Ghuroob_ILC240603AZ / Luminaire parts list

6 Pieces VEGA2 7M 4.700 L4_L
Article No.:
Luminous flux (Luminaire): 39120 lm
Luminous flux (Lamps): 45587 lm
Luminaire Wattage: 240.0 W
Luminaire classification according to CIE: 100
CIE flux code: 37 72 97 100 86
Fitting: 1 x LUMILEDS Luxeon 5050 Square
(Correction Factor 1.000).

See our luminaire catalog
for an image of the
luminaire.



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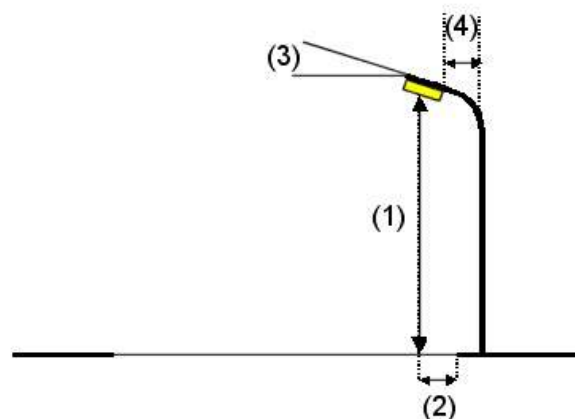
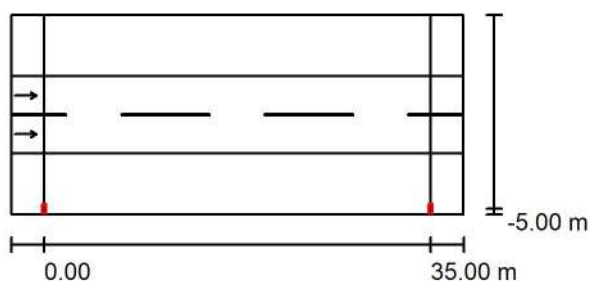
Street 1 / Planning data

Street Profile

Lay-by (Width: 5.500 m)
 Roadway 1 (Width: 7.000 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
 Lay-by (Width: 5.500 m)

Light loss factor: 0.85

Luminaire Arrangements



Luminaire: VEGA2 7M 4.700 L4_L
 Luminous flux (Luminaire): 39120 lm
 Luminous flux (Lamps): 45587 lm
 Luminaire Wattage: 240.0 W
 Arrangement: Single row, bottom
 Pole Distance: 35.000 m
 Mounting Height (1): 10.000 m
 Height: 10.000 m
 Overhang (2): -5.000 m
 Boom Angle (3): 10.0 °
 Boom Length (4): 1.000 m

Maximum luminous intensities
 at 70°: 790 cd/klm
 at 80°: 488 cd/klm
 at 90°: 4.72 cd/klm

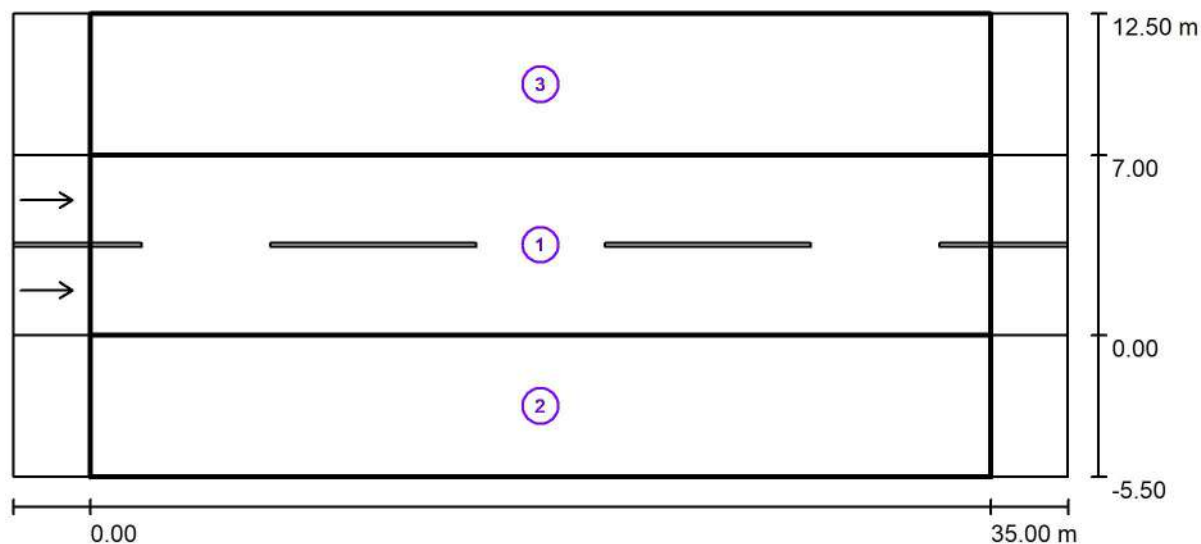
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

Arrangement complies with glare index class D.2.

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Street 1 / Photometric Results



Light loss factor: 0.85

Scale 1:294

Calculation Field List

- Valuation Field Roadway 1
 Length: 35.000 m, Width: 7.000 m
 Grid: 12 x 6 Points
 Accompanying Street Elements: Roadway 1.
 tarmac: R3, q0: 0.070
 Selected Lighting Class: ME4a

(All lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	2.26	0.79	0.69	13	0.88
Required values according to class:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

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Street 1 / Photometric Results

Calculation Field List

2 Valuation Field Lay-by

Length: 35.000 m, Width: 5.500 m

Grid: 12 x 4 Points

Accompanying Street Elements: Lay-by.

Selected Lighting Class: CE5

(All lighting performance requirements are met.)

Calculated values:

Required values according to class:

Fulfilled/Not fulfilled:

E_{av} [lx]

44.34

≥ 7.50

✓

U0

0.52

≥ 0.40

✓

3 Valuation Field Lay-by

Length: 35.000 m, Width: 5.500 m

Grid: 12 x 4 Points

Accompanying Street Elements: Lay-by.

Selected Lighting Class: CE5

(All lighting performance requirements are met.)

Calculated values:

Required values according to class:

Fulfilled/Not fulfilled:

E_{av} [lx]

29.76

≥ 7.50

✓

U0

0.53

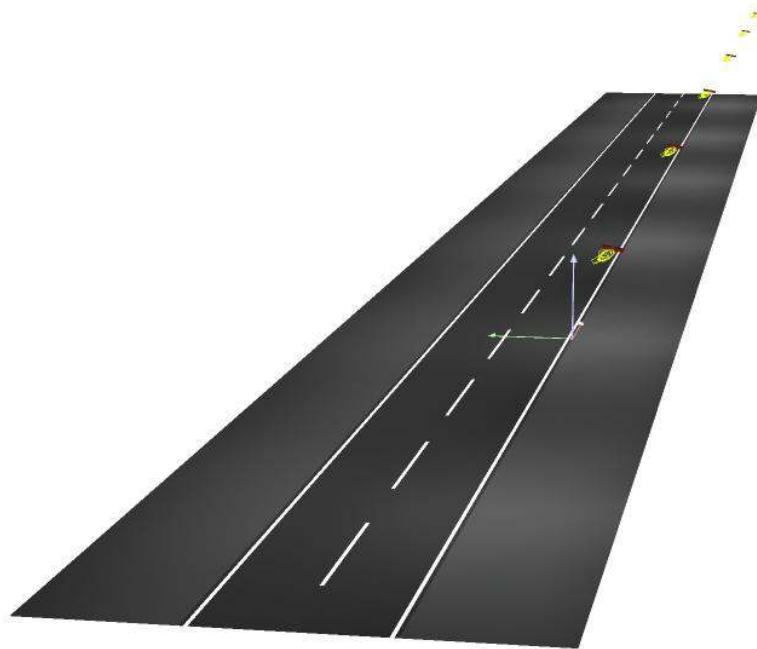
≥ 0.40

✓

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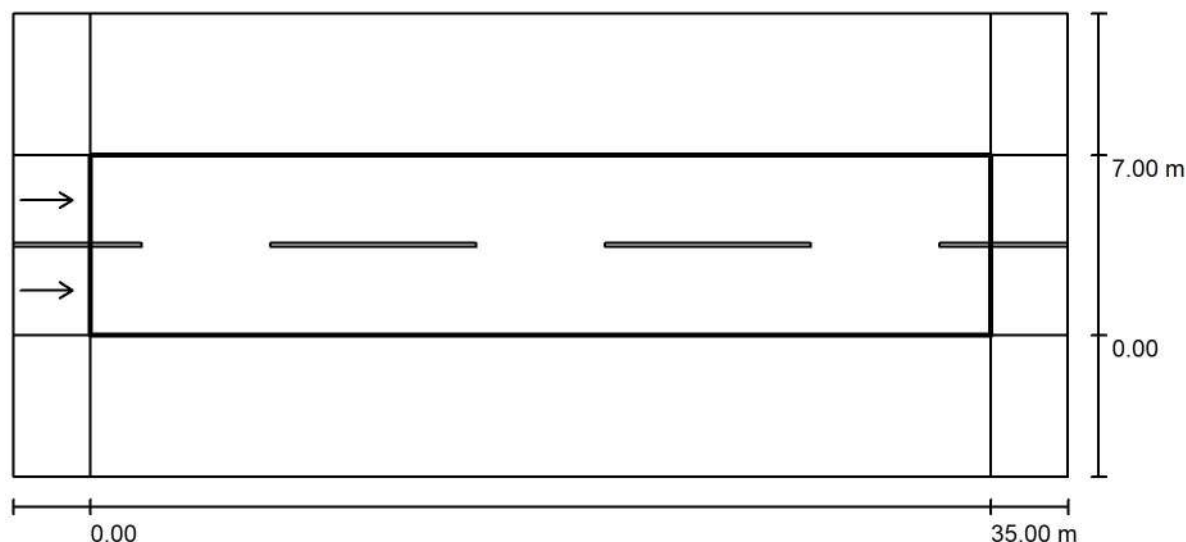
Street 1 / 3D Rendering



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Street 1 / Valuation Field Roadway 1 / Results overview



Light loss factor: 0.85

Scale 1:294

Grid: 12 x 6 Points

Accompanying Street Elements: Roadway 1.

tarmac: R3, q0: 0.070

Selected Lighting Class: ME4a

(All lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	2.26	0.79	0.69	13	0.88
Required values according to class:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

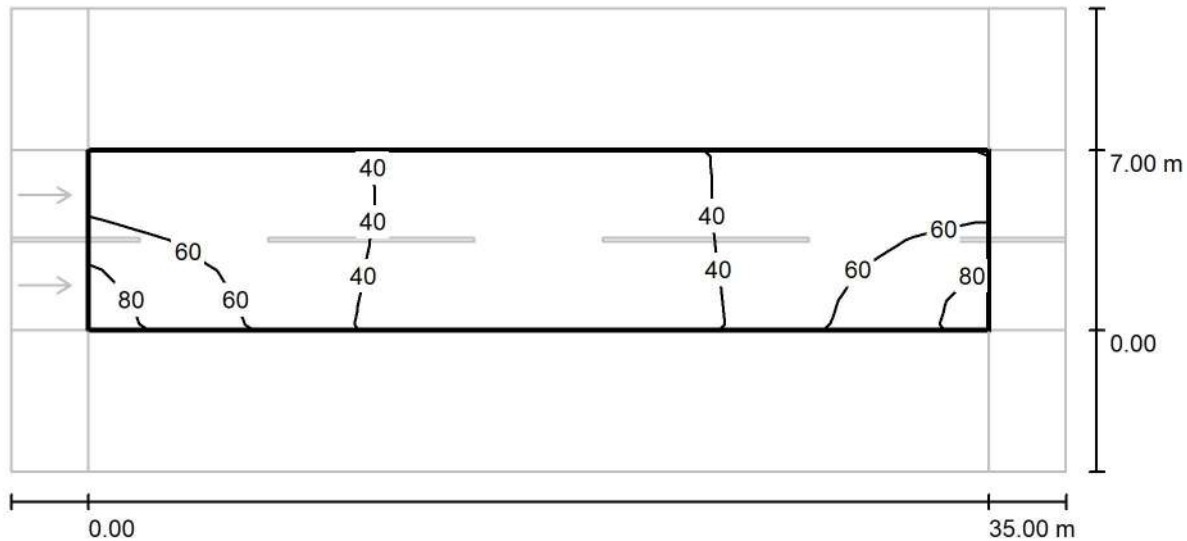
Assigned observer (2 Pieces):

No.	Observer	Position [m]	L_{av} [cd/m ²]	U0	UI	TI [%]
1	Observer 1	(-60.000, 1.750, 1.500)	2.26	0.81	0.69	12
2	Observer 2	(-60.000, 5.250, 1.500)	2.46	0.79	0.83	13

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Street 1 / Valuation Field Roadway 1 / Isolines (E)



Values in Lux, Scale 1 : 294

Grid: 12 x 6 Points

E_{av} [lx]
47

E_{min} [lx]
27

E_{max} [lx]
82

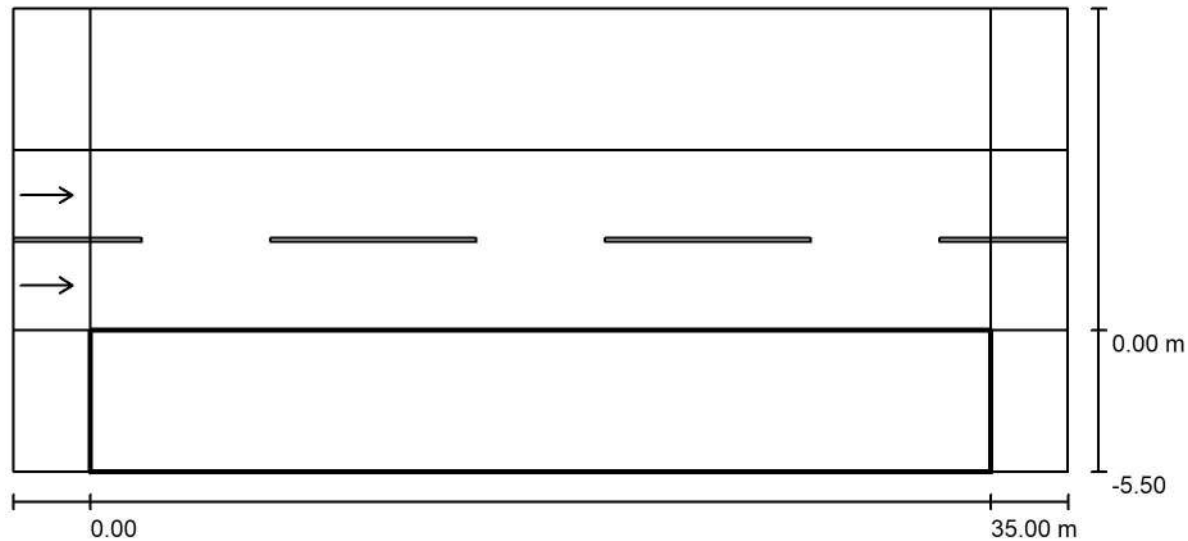
u_0
0.569

E_{min} / E_{max}
0.324

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Street 1 / Valuation Field Lay-by / Results overview



Light loss factor: 0.85

Scale 1:294

Grid: 12 x 4 Points

Accompanying Street Elements: Lay-by.

Selected Lighting Class: CE5

(All lighting performance requirements are met.)

Calculated values:

Required values according to class:

Fulfilled/Not fulfilled:

E_{av} [lx]

44.34

≥ 7.50



U0

0.52

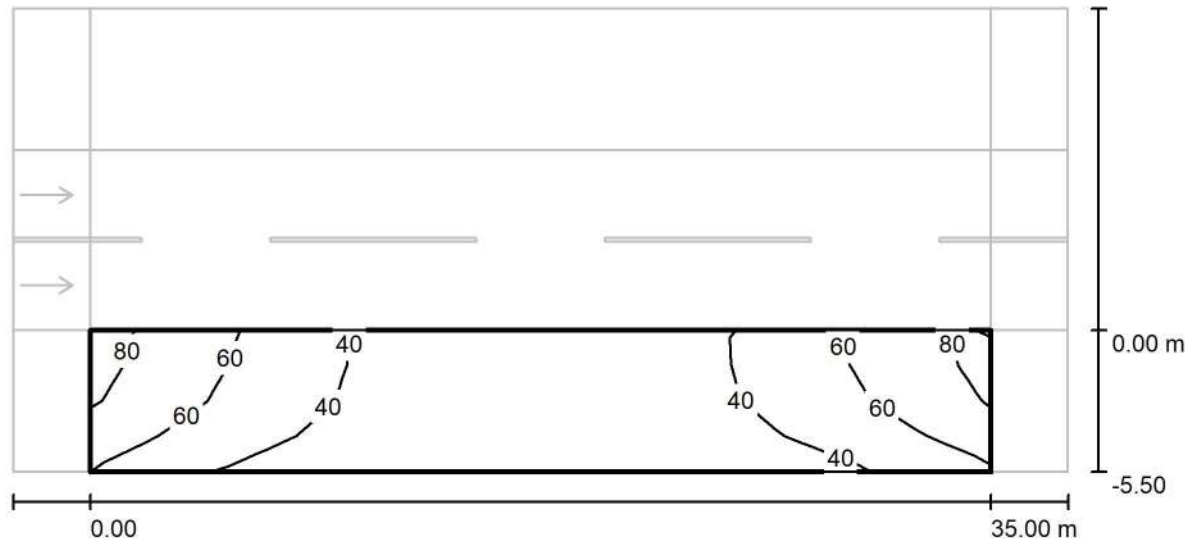
≥ 0.40



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Street 1 / Valuation Field Lay-by / Isolines (E)



Values in Lux, Scale 1 : 294

Grid: 12 x 4 Points

E_{av} [lx]
44

E_{min} [lx]
23

E_{max} [lx]
80

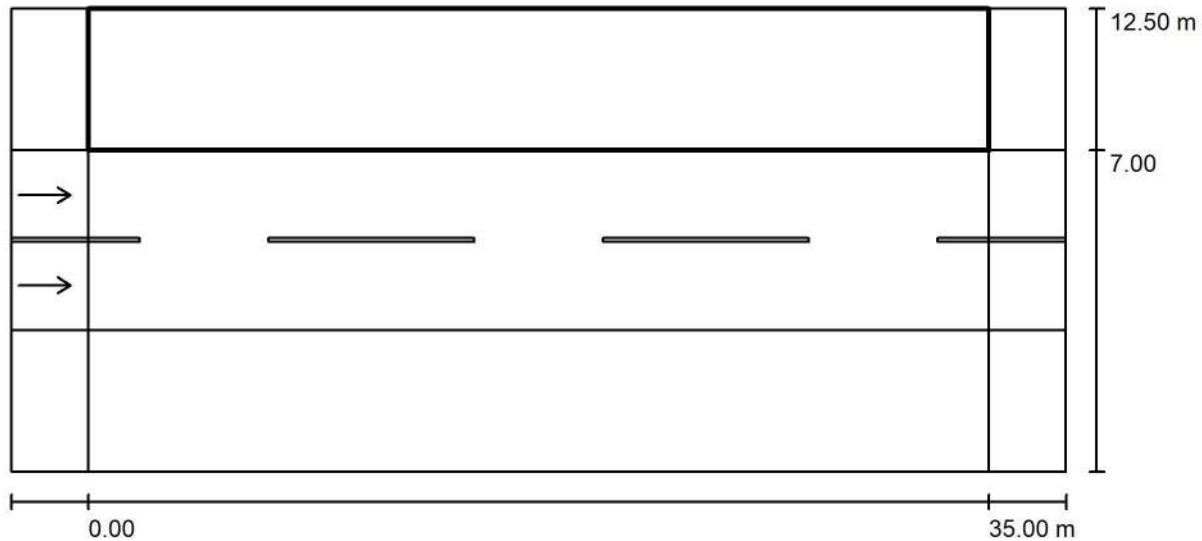
u_0
0.519

E_{min} / E_{max}
0.288

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Street 1 / Valuation Field Lay-by / Results overview



Light loss factor: 0.85

Scale 1:294

Grid: 12 x 4 Points

Accompanying Street Elements: Lay-by.

Selected Lighting Class: CE5

(All lighting performance requirements are met.)

Calculated values:

Required values according to class:

Fulfilled/Not fulfilled:

E_{av} [lx]

29.76

≥ 7.50



U0

0.53

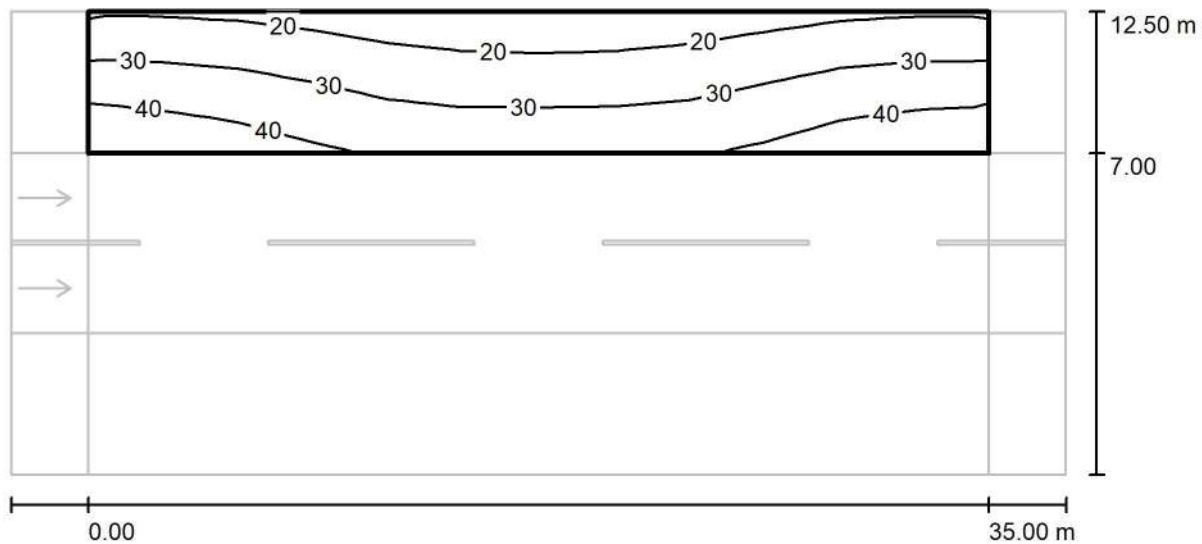
≥ 0.40



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Street 1 / Valuation Field Lay-by / Isolines (E)



Values in Lux, Scale 1 : 294

Grid: 12 x 4 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
30	16	46	0.534	0.346